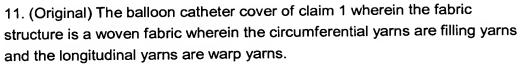
Amendments to the Claims

Please amend Claims 1, 2, 5, 6, 9, 10, 14, 33, and 35 as indicated below and withdraw without prejudice Claims 18 – 31, which claim non-elected invention:

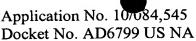
- 1. (Currently Amended) A balloon catheter cover comprising a tubular elastic fabric structure of interconnected circumferential and longitudinal yarns, the <u>circumferential yarns</u> <u>structure</u> having <u>a high degree of</u> stretch and recovery <u>properties and the longitudinal yarns having more resistance to stretch than the circumferential yarns in the circumferential direction</u>.
- 2. (Currently Amended) The balloon catheter cover of claim 1 wherein the there is essentially no change in length in the longitudinal direction over the full range of stretch and recovery in the circumferential direction is less than 0.25 times the change in the diameter over the full range of stretch and recovery.
- 3. (Original) The balloon catheter cover of claim 2 wherein the circumferential yarns have an elongation at break of more than 300%.
- 4. (Original) The balloon catheter cover of claim 3 wherein the longitudinal yarns have an elongation at break of less than 30%.
- 5. (Currently Amended) The balloon catheter cover of claim 1 wherein the degree of stretch in the circumferential direction is <u>such that the diameter of the cover when stretched is more than two 2 times the diameter of the cover when collapsed</u>.
- 6. (Currently Amended) The balloon catheter cover of claim 1 wherein the degree of stretch is <u>such that the diameter of the cover when stretched is</u> more than 3 times <u>the diameter of the cover when collapsed</u>.
- 7. (Original) The balloon catheter cover of claim 1 wherein the longitudinal yarns are positioned at about zero degrees to the balloon axis and the circumferential yarns are positioned at an angle Ø to the axis of at least 70°.
- 8. (Original) The balloon catheter cover of claim 7 wherein the angle \varnothing is greater than 85°.
- 9. (Currently Amended) The balloon catheter cover of claim 8 wherein the angle Ø is about 90°.
- 10. (Currently Amended) The balloon catheter cover of claim 1 wherein the fabric structure is a triaxial braid wherein the circumferential yarns are elastomeric braiding yarns and the longitudinal yarns are relatively stiff axial yarns that resist stretching.

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- 12. (Original) The balloon catheter cover of claim 1 wherein the tubular structure is made from a fabric selected from the group of fabrics consisting of non-woven fabrics and those made by weft knitting and by warp knitting.
- 13. (Original) The balloon catheter cover of claim 12 wherein the tubular structure is made by sewing edges of a flat fabric together so as to make a tube having a longitudinal dimension and a circumferential dimension, the edges being sewn together being along the longitudinal dimension.
- 14. (Currently Amended) The balloon catheter cover of claim 1 wherein the <u>circumferential yarns are</u> elastomeric yarns are selected from the group consisting of yarns made from spandex fibers, fibers of polyurethane polymers, fibers of silicone elastomers, fibers of polyester/polyether block copolymers, fibers of polypropylene, fibers of fluoroelastomers, fibers of elastomeric polyolefins, and fibers of combinations thereof.
- 15. (Original) The balloon catheter cover of claim 14 wherein the elastomeric yarns are spandex fibers wherein the segmented polyurethanes of the spandex fibers is selected from the group consisting of polyetherurethaneurea and polyesterurethaneurea block copolymers, or combinations thereof.
- 16. (Currently Amended) The balloon catheter cover of claim 45 14 wherein the elastomeric yarns spandex fibers are covered. with a hard yarn.
- 17. (Original) The balloon catheter cover of claims 1 wherein the longitudinal yarns are selected from yarns made from fibers of polyesters; polyamides; aramids; polyolefins; polyglycolic acids; polylactic acids; fluoropolymers; and combinations thereof.
- 18. (Currently Amended) A process for making a tubular structure having a longitudinal dimension and a circumferential dimension to be used as a the balloon catheter cover of Claim 1 in which multiple longitudinal yarns are placed from a fixed source along the longitudinal dimension over a core so as to not intertwine with themselves and multiple circumferential yarns from moving sources are intertwined in the circumferential dimension with the longitudinal yarns and themselves.
- 19. (Original) The process of claim 18 in which the core is a balloon catheter.
- 20. (Original) The process of claim 18 in which the core is a removable mandrel.
- 21. (Original) The process of claim 20 in which the removable mandrel is an array on monofilament yarns.





- 22. (Original) The process of claims 18 where the circumferential yarns are intertwined with the longitudinal yarns and themselves by flat or circular weaving.
- 23. (Original) The process of claims 18 where the circumferential yarns are intertwined with the longitudinal yarns and themselves by triaxial braiding.
- 24. (Original) The process of claims 18 where the circumferential yarns are intertwined with the longitudinal yarns and themselves by knitting.
- 25. (Currently Amended) A braiding process for making the balloon catheter covers of Claim 1 comprising triaxially braiding 2, 4 or 6 elastomeric braiding yarns with multiple axial yarns.
- 26. (Currently Amended) A The triaxial braiding process of Claim 25 wherein the number of braiding yarns is less than half of the number of axial yarns.
- 27. (Original) The triaxial braiding process of claim 26 wherein the number of braiding yarns is less than or equal to one-eighth of the number of axial yarns.
- 28. (Original) The braiding process of claims 25 wherein the braid angle between the braiding yarn and the axial yarn is greater than 70°.
- 29. (Currently Amended) A method of making a balloon catheter covered with the balloon catheter cover of Claim 1 in which the balloon catheter cover is formed directly over a balloon catheter.
- 30. (Currently Amended) A method of making a balloon catheter covered with the balloon cover of Claim 1 in which the balloon catheter cover is formed over a removable mandrel and the balloon catheter cover is subsequently placed over a catheter balloon.
- 31. (Original) The method of claim 30 in which the removable mandrel is a helical spring which is removed by unwinding the coils of the spring from the inside to cause the catheter cover to contract onto a balloon catheter.
- 32. (Original) The balloon catheter cover of claim 1 in which the properties vary along the length of the sleeve.
- 33. (Currently Amended) A balloon catheter cover of claim 32 in which the varied properties along the length of the sleeve are produced vary by varying the braiding changes of the yarn spacing along the length of the sleeve.
- 34. (Original) A balloon catheter cover of claim 1 in which the shape is not cylindrical.
- 35. (Currently Amended) The A method of making a balloon catheter cover of claim 34 33 in which the non-cylindrical shape is obtained by forming the cover over the using of a shaped mandrel.

